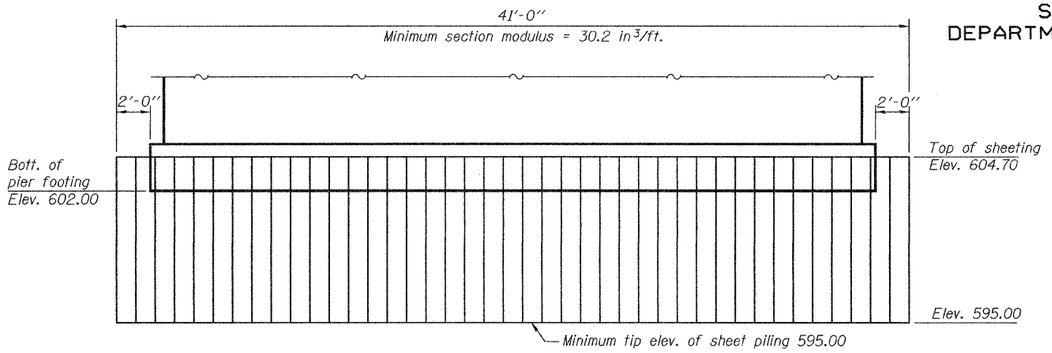
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

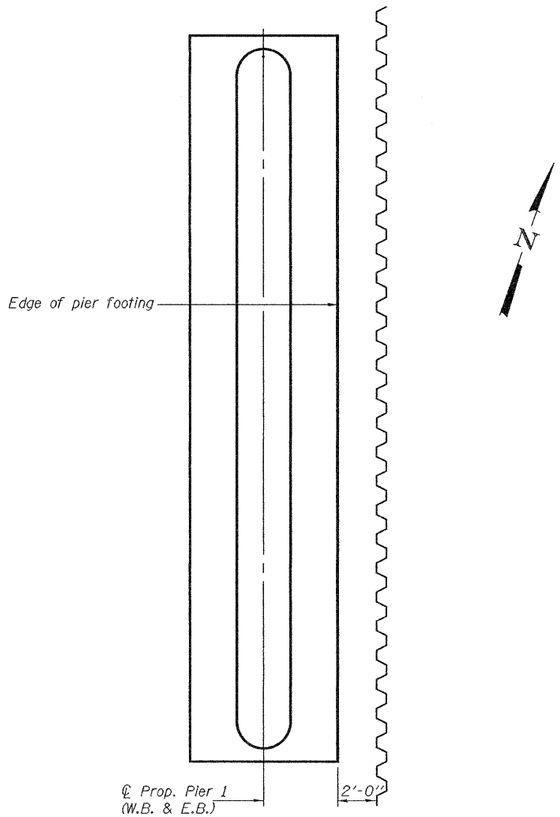
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| F.A.I. 80 | 14VBR-2 & 14VBR-3 | BUREAU | 219 | 106 |
| FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT- | | |

SHEET NO. 2
35 SHEETS

Contract No. 66731

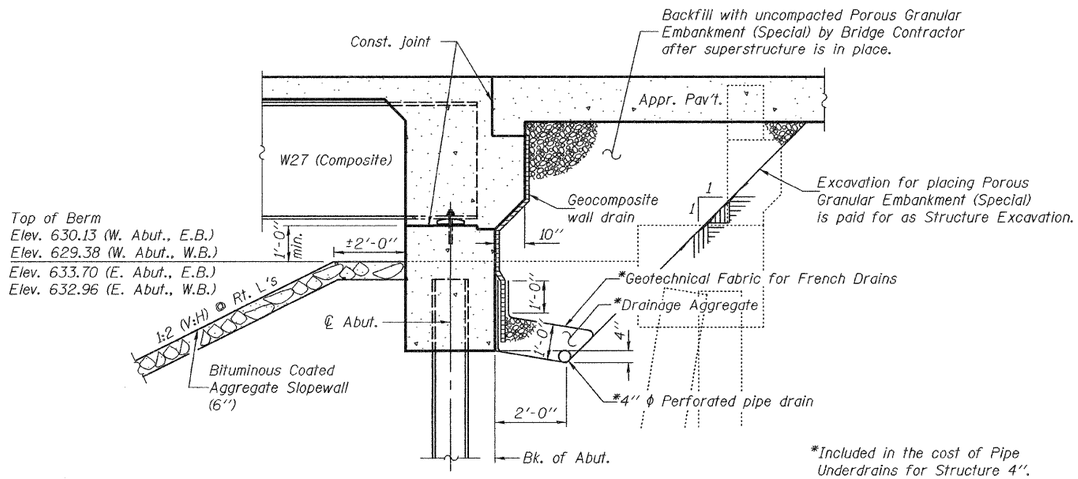



ELEVATION




TOP VIEW

PIER 1 - TEMP. SHEET PILING DETAILS




*Included in the cost of Pipe Underdrains for Structure 4".

SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. © Rt. L's)

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

TOTAL BILL OF MATERIAL

| ITEM | UNIT | SUPER | SUB | TOTAL |
|---|---|---|---|---|
| Porous Granular Embankment (Special) | Cu. Yd. | | 238 | 238 |
| Removal of Existing Structures | Each | | | 2 |
| Structure Excavation | Cu. Yd. | | 1326 | 1326 |
| Concrete Structures | Cu. Yd. | | 560.2 | 560.2 |
| Concrete Superstructure | Cu. Yd. | 465.2 | | 465.2 |
| Bridge Deck Grooving | Sq. Yd. | 1306 | | 1306 |
| Concrete Encasement | Cu. Yd. | | 12.4 | 12.4 |
| Protective Coat | Sq. Yd. | 1634 | | 1634 |
| Furnishing and Erecting Structural Steel | L. Sum | 1 | | 1 |
| Stud Shear Connectors | Each | 8208 | | 8208 |
| Reinforcement Bars, Epoxy Coated | Pound | 117650 | 90760 | 208410 |
| Bar Splicers | Each | 160 | | 160 |
| Slopewall 4" | Sq. Yd. | | 138 | 138 |
| Bituminous Coated Aggregate Slopewall, 6" | Sq. Yd. | | 1324 | 1324 |
| Furnishing Steel Piles HP10x42 | Foot | | 1584 | 1584 |
| Furnishing Steel Piles HP12x53 | Foot | | 3680 | 3680 |
| Driving Piles | Foot | | 5264 | 5264 |
| Test Pile Steel HP10x42 | Each | | 4 | 4 |
| Test Pile Steel HP12x53 | Each | | 4 | 4 |
| Temporary Sheet Piling | Sq. Ft. | | 796 | 796 |
| Name Plates | Each | 2 | | 2 |
| Anchor Bolt 1" ϕ | Each | | 96 | 96 |
| Geocomposite Wall Drain | Sq. Yd. | | 136 | 136 |
| Pipe Underdrains for Structures, 4" | Foot | | 326 | 326 |
| Protective Shield | Sq. Yd. | 476 | | 476 |

GENERAL NOTES

Fasteners shall be AASHTO M164 Type 3, bolts. Bolts $\frac{7}{8}$" ϕ, holes $\frac{15}{16}$" ϕ, unless otherwise noted.

Calculated weight of Structural Steel = 310070 lbs. (M 270 Grade 50W).

All structural steel shall be AASHTO M 270 Grade 50W.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Bearing seat surfaces shall be constructed or adjusted to their designated elevations within a tolerance of $\frac{1}{8}$ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Those areas shall be primed in the shop with a Department approved zinc rich primer. No field painting shall be required. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

Slopewall shall be reinforced with welded wire fabric, 6"x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

GENERAL DATA

F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3

BUREAU COUNTY

STATION 413+39.84

STRUCTURE NO. 006-0167 (E.B.)

STRUCTURE NO. 006-0168 (W.B.)

| | |
|---|---|
| DESIGNED | Nicholas R. Barnett |
| CHECKED | Ray Ahanchi |
| DRAWN | h.t. duong |
| CHECKED | NRB/GRA |

Sep. 30, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

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